

CONTRIBUTIONS TO MULTI-AGENT SYSTEMS IMPLEMENTATION FOR PROJECT SCHEDULING

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Abstract: Increasing project complexity makes scheduling problems more difficult to solve and requires more versatile algorithms. Two different approaches for the project scheduling optimization could be considered: TCPSP (Time-Constrained Project Scheduling), and RCPSP (Resource-Constrained Project Scheduling). In this paper we study the possibility to apply Multi-Agent Systems (MAS) for these scheduling problems regarding different fitness functions. We search for strengths and weaknesses of MAS as a prerequisite study for a further implementation of the TCSP on a specific MAS platform.

Keywords: multi-agent systems, scheduling, project management, planning

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